Approved for use through 10/31/2002. OMB 0651-0032 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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LITHITY	Attorney	Docket No.	503.42954X00					
UTILITY PATENT APPLICATION	First Inve	ntor	TOGASHI, SHIGENORI					
TRANSMITTAL	Title		ON VALVE AND INTERNAL COMBUSTION					
(Only for new nonprovisional applications under 37 CFR 1.53(b))			TING THE SAME					
ADDI IOATION EL SUENTO	Express I	Mail Label No.						
APPLICATION ELEMENTS		ADDRESS	Assistant Commissioner for Patents TO: Box Patent Application					
SEE MPEP chapter 600 concerning utility patent application		Washington, DC 20231						
Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) ———————————————————————————————————		Com	D-ROM or CD-R in duplicate, large table or computer Program (Appendix)					
2. Applicant claims small entity status. See 37 CFR 1.27.		fif applicable	8. Nucleotide and/or Amino Acid Sequence Submission fif applicable, all necessary)					
3. Specification [Total Pages: 16]		a. U Computer Readable Form (CRF) b. Specification Sequence Listing on:						
(preferred arrangement set forth below)			i \Box CD-ROM or CD-R (2 copies); or					
 -Descriptive title of the invention -Cross Reference to Related Applications 			paper Et 20					
-Statement Regarding Fed sponsored R & D		II I	□ paper					
-Reference to sequence listing, a table, or a computer program listing appendix		c. State	ements verifying identity of above copies					
-Background of the Invention -Brief Summary of the Invention		AC	COMPANYING APPLICATION PARTS					
-Brief Description of the Drawings (if filed)								
-Detailed Description -Claim(s)		9. Assig	nment Papers (cover sheet & documents(s))					
-Abstract of the Disclosure		10. 37 CI	FR 3.73(b) Statement Power of Attorney					
4. Drawing(s) (35 U.S.C. 113) [Total Pages: 8]		(whei	n there is an assignee)					
5. Oath or Declaration [Total Pages: 5]			sh Translation Document (if applicable)					
a Newly executed (original or copy)		12. Information Disclosure Copies of IDS Citations Statement (IDS)/PTO-1449						
b Copy from a prior application (37 CFR 1.63 (d))								
(for continuation/divisional with Box 18 completed)	14. 🛭 Retur	14. Return Receipt Postcard (MPEP 503)						
i. DELETION OF INVENTOR(S)	(Should be specifically itemized) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed)							
Signed statement attached deleting inventor(s) Named in the prior application, see 37 CFR								
1.63(d)(2) and 1.33(b)	1 —							
6. Application Data Sheet. See 37 CFR 1.76	(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.							
	I 57	17. Other: Figs. 1-14, Credit Card Payment Form						
18. If a CONTINUING APPLICATION, check appropriate is	oox, and sup							
or in an Application Data Sheet under 37 CFR 1.76:								
L Continuation Divisional Con	tinuation-in-par	rt (CIP) of prior a	pplication No.:					
Prior application information: Examiner: Group A	rt Unit:							
For CONTINUATION OR DIVISIONAL APPS only: The entire dis Box 5b, is considered a part of the disclosure of the accompany								
The incorporation can only be relied upon when a portion has be								
19. C	ORRESPOND	ENCE ADDRESS	7					
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Name ANTONELLI, TERRY, STOUT &	KRAUS, LLI	P						
Address								
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Country	Telephone	(702) 240 0000	Code					
Name Gregory E. Montage	Telephone	(703) 312-6600 Registration No. (A	Fax (703) 312-6666					
Signature MAMMO			ttomey/Agent) 28,141 Date July 18, 2003					
Cico V			2010 001) 10, 2000					

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FEE	TRANSMITTA	٩L
f	for FY 2003	

Complete if Known Application Number Filing Date July 18, 2003 First Named Inventor TOGASHI, SHIGENORI

Examiner Name Effective 01/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27							Art Unit						
TOTAL AMOUNT OF PAYMENT (\$) 790.00							Attorney Docket No. 503.42954X00						
METHOD OF PAYMENT (check all that apply)						FEE CALCULATION (continued)							
☐ Check ☑ Credit Card ☐ Money Order ☐ Other ☐ None					3. /	3. ADDITIONAL FEES							
☑ Deposit Account:					Fee	Larg Entit Fee		Smal Entity Fee					
Deposit Account Number 01-2135						Code		Code	(\$)		Fee Description	Fee Paid	
Deposit Account Name Antonelli, Terry, Stout & Kraus, LLP						1051	130	2051	65	Surc	charge – late filing fee or oath		
The Commissioner authorized to: (check all that apply)					1052		2052	25		charge – late provisional filing fee or			
☐ Charge fees indicated below										er sheet			
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_	ode 001	(\$) 750	2001		Utility filing fee	750.00	1252 1253		2252 2253	205		ension for reply within second month	
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	005	160		80	Provisional filing fee		1401		2401	160		ce of Appeal	
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					SUBTOTAL (1	750.00	1403		2403	140	•	uest for oral hearing	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE				1451					tion to institute a public use proceeding				
					Fee from		1452		2452	55 650		tion to revive – unavoidable	
					laims below	Fee Paid	1453			650		tion to revive – unintentional	
Total	Claims		-20**	= 0	x 18	= 0	1501			650		ty issue fee (or reissue)	
Indep Claim		3	-3**	= 0	x 84	= 0	1502		2502	235		ign issue fee	
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Large		Entity	/ Sn	nall	Entity		1807		1807	50		tessing fee under 37 CFR 1.17(q)	
Fee	Fee	Fee	Fee		Fee Description	1	1806		1806	180		mission of Information Disclosure Strnt	
Code 1202	(\$) 18	Code 2202	(\$) 9		Claims in excess of	20	8021		8021	40	prop	ording each patent assignment per erty (times number of properties)	40.00
1201	84	2201	42		Independent claims	in excess of 3	1809	750	2809	375		g a submission after final rejection CFR § 1.129(a))	
1203	280	2203	140		Multiple dependent		1810	750	2810	375	For e	each additional invention to be nined (37 CFR § 1.129(b))	
1204 84	84	2204	42		** Reissue independent claims		1801		2801	375	Requ	uest for Continued Examination (RCE)	
over original patent		1802	900	1802	900		uest for expedited examination						
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent					Othe	of a design application Other fee (specify)							
SUBTOTAL (2) \$ 0.00 **or number previously paid, if greater; For Reissues, see above.					*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40.00						40.00		
SUBMITTED BY										Complete (if applicable)			
			-,							_		Timping (in application)	

Registration No. Name (Print/Type) (Attorney/Agent) 703-312-6600 Telephone Signature July 18, 2003

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.